世界知的所有権機関 国際事務局 特許協力条約に基づいて公開された国際出願



(51) 国際特許分類6 WO00/46153 (11) 国際公開番号 C01G 23/04 A1 (43) 国際公開日 2000年8月10日(10.08.00) (21) 国際出願番号 PCT/JP99/03528 (81) 指定国 US, 欧州特許 (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE) (22) 国際出願日 1999年6月30日(30.06.99) 添付公開書籍 (30) 優先権データ 国際調査報告書 特願平11/27008 1999年2月4日(04.02.99) JP **辦獅平11/35358** 1999年2月15日(15.02.99) IF (71) 出願人(米国を除くすべての指定国について) 川崎重工業株式会社 (KAWASAKI JUKOGYO KABUSHIKI KAISHA)[JP/JP] 〒650-8670 兵庫県神戸市中央区東川崎町三丁目1番1号 Hyogo, (JP) (72) 発明者:および (75) 発明者/出願人(米国についてのみ)

(54)Title: METHOD FOR PRODUCING ANATASE TYPE TITANIUM DIOXIDE AND TITANIUM DIOXIDE COATING MATERIAL

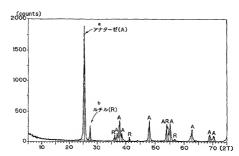
(57) Abstract

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A method for producing an anatase type titanium dioxide powder which comprises subjecting a titania sol, a titania gel or a titania sol-gel mixture to a heat treatment and simultaneously to a pressure treatment in a closed vessel, and subsequently drying the resulting product; and a method for producing an anatase type titanium dioxide slurry which comprises subjecting a titania sol, a titania gel or a titania sol-gel mixture to a heat treatment and simultaneously to a pressure treatment in a closed vessel, and subsequently agitating the resulting product to provide a dispersion. This method can be used for producing an anatase type titanium dioxide powder which exhibits high photocatalytic activity and has a large specific surface area, and an anatase type titanium dioxide slurry which has high storage stability and high dispersibility in a process operated at a relatively low temperature and having a small number of steps. A slurry thus obtained can be used as a coating material having photocatalytic activity which can be coated on a material having poor heat resistance.

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a ... ANATASE (A)

b ... RUTILE (R)